(c) to (e) The Centre for Development of Advanced Computing (C-DAC), Pune an autonomous Society under the Department of Electronics has initiated work in this direction for providing tools for analysis of Sanskrit and Vedic text in Indian Scripts. Packages are under development and the mechanism for their dissemination will be worked out thereafter.

List of some major works being done abroad on Computer applications in analysis of Sanskrit

1. "Shastraic Sanskrit as Machine Translation Interlingua" by Rick Briggs, NASA, USA, Doctoral thesis.

2. "Sanskrit—Computational" by Dr. E. Schredl, Germany, 1990.

3. "On Knowledge Representation using Semantic Networks and Sanskrit" by S. N. Srihari, WJ. Rapaport and D. Kumar Technical Report 87-03 of SUNY at Buffalo, USA, (Describes SNePS, a Semantic Network tool for NLP).

4. "Knowledge Representation in Sanskrit and AI" by Rick Briggs, NASA, USA, AL Magazine. Spring, 1985.

5. "The morphological analysis of Sanskrit by Computer" by A. Verboom. Institute Kern, Germany,—Ph. D Thesis.

6. "The Paninian approach to Natural Language Processing" by Prof. Subhash C. Kak, Lousiana State University, USA.

7. "A Knowledge Representation Language based on Navya-Nyaya" by Anand V. Hudli, Indiana University, USA.

Computer based Dictionaries for Sanskrit

1684. SHRIMATI SUSHMA SWARAJ: Will the PRIME MINISTER be pleased to state:

(a) whether there are any computer based dictionaries for the Sanskrit; if so, details thereof;

(b) whether there are the details of the Government's any computer based bi-lingual dictionaries for the sanskrit;

(c) plan to develop computer based Sanskrit dictionary with syntactic and semantic features;

(d) what are the details of the scheme to involve the Sanskrit Lexicographers in this work; and

(e) what will be the estimated budget, duration and Sanskrit and computer science manpower deployment?

THE MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS (SHRIMATI MARGARET ALVA): (a) and (b) No, Sir.

(c) The Centre for Development of Advanced Computing (C-DAC) an autonomous registered Society under the administrative control of Department of Electronics is engaged in developing a Sanskrit Paninian platform (a corpus Grammar) with Astadhyaya (Sutrapatha), Ganapath (Nominal formation), Dhatupatha (Varbal formation), Linganusasana (gender) and Siksa (Phonetics), with diacritical marks (Roman transliteration) and accents (for Vedic Sanskrit) besides the facilities for North and South Indian and Perso-Arabic transliterations.

(d) and (e) Such development work will involve close interaction between the Sanskrit Lexicographers and computer scientists. A project has been initiated under Department of Electronics Techonology Development for Indian Languages (TDIL) Programme for the development of Lexicon at Sampurnanand Sanskrit University, Varanasi, A budget of Rs. 33.5 lakhs has been estimated for this project with a duration of three years.

Monopoly in production and import of drugs

1685. SHRI PRAVAT KUMAR SAMANTARAY:

DR. R. K. PODDAR:

Will the PRIME MINISTER be pleased to state:

(a) what are the names of drugs which have monopoly in production and